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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/726,618	12/04/2003	Piero Patrone Bonissone	52493.000310	5754
21967 7590 03/20/2009 HUNTON & WILLIAMS LLP INTELLECTUAL PROPERTY DEPARTMENT 1900 K STREET, N.W. SUITE 1200 WASHINGTON, DC 20006-1109			EXAMINER RAJ, RAJIV J	
			ART UNIT 3686	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/726,618

Applicant(s)

BONISSONE ET AL.

Examiner

RAJIV J. RAJ

Art Unit

3686

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 February 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SE/US)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Status of Claims

1. This action is in reply to the application filed on 05 February 2009.
2. Claims 1 and 17 have been amended.
3. Claims 1-18 have been examined in this application.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

5. In light of Applicant's amendment of claims 1 & 17, the previous rejection of claims 1-5 & 17-18 are withdrawn.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

8. Claims 1, 3-5, 7-9, 11-13 and 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lerner et al. (US 20020087364 A1) (hereinafter Lerner) in view of Ghouri (US 2004/0049506 A1) (hereinafter Ghouri).

As per claim 1, Lerner teaches a method for using medication and medical condition information in automated insurance underwriting, the method comprising the steps of:

- *identifying medical condition information provided by the applicant*; (see at least Lerner [0022] "the server system prompts the user for responses to policy specific questions (e.g., age, sex, state of residence, medical and family history (e.g., history of cancer, heart disease, etc.), current medical condition and lifestyle")
- *making at least one insurance underwriting decision based on the consistency between the medication information and the medical condition information*; (see at least Lerner [0024] "A total risk factor or eligibility score is calculated by adding the individual assessment values assigned to the potential customer at step 162 after review of the medical and application information. This total score

represents a comprehensive quantified assessment of the potential customer insurability, and is used to make decisions on whether or not to underwrite a life insurance policy")

Lerner does not disclose the following limitations, however Ghouri, as shown does:

- *identifying medication information provided by an applicant;* (see at least Ghouri [0019] Fig:1,2 & related text)
- *assessing a consistency between the medication information and the medical condition information, the assessing consistency between the medication information and the medical condition information performed by the processor;* (see at least Ghouri [0019] Fig:1,2 & related text)

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the features of Ghouri into Lerner. One of ordinary skill in the art would have added these features into Lerner with the motivation to provide a more efficient and accurate approach to assessing the consistency between medication information and the medical conditions in order to yield more informed and beneficial medical decisions. (see at least Ghouri [0008]-[0013])

As per claim 3, Lerner teaches the steps of:

- *querying a medical knowledge database, the database comprises information associated with a plurality of medications, a plurality of medical conditions, and treatment associations between the plurality of medications and the plurality of medical conditions.* (see at least Lerner [0017] "accessing the server via the

network and one or more information systems or databases . . . The information typically includes HMO claims records, medical laboratory test reports and/or computerized results from previous hospital or doctor office examinations. The nature of the particular records stored and accessed may vary widely, depending upon the nature of the insurance or policy desired.”)

As per claim 4, Lerner teaches:

- *assigning the applicant to a risk category based on the consistency between the medication information and the medical condition information. (see at least Lerner Fig. 2 Items:56,72 and related text)*

As per claim 5, Lerner teaches the steps of:

- *code adapted to identify medication information provided by an applicant; code adapted to identify medical condition information provided by the applicant; (see at least Lerner [0022])*
- *code adapted to assess a consistency between the medication information and the medical condition information; (see at least Lerner [0023])*
- *code adapted to make at least one insurance underwriting decision based on the consistency between the medication information and the medical condition information. (see at least Lerner [0024])*

As per claim 7, Lerner teaches the steps of:

- *code adapted to query a medical knowledge database, the database comprises information associated with a plurality of medications, a plurality of medical*

conditions, and treatment associations between the plurality of medications and the plurality of medical conditions. (see at least Lerner [0017])

As per claim 8, Lerner teaches:

- *code adopted to assign the applicant to a risk category based on the consistency between the medication information and the medical condition information. (see at least Lerner Fig. 2 Items:56,72 and related text)*

As per claim 9, Lerner teaches the system comprising:

- *a first identification module identifying medication information provided by an applicant; a second identification module identifying medical condition information provided by the applicant; (see at least Lerner [0022])*
- *a assessment module assessing a consistency between the medication information and the medical condition information; (see at least Lerner [0023])*
- *an insurance module for making at least one insurance underwriting decision based on the consistency between the medication information and the medical condition information. (see at least Lerner [0024])*

As per claim 11, Lerner teaches the steps of:

- *a query module for querying a medical knowledge database, the database comprises information associated with a plurality of medications, a plurality of medical conditions, and treatment associations between the plurality of medications and the plurality of medical conditions. (see at least Lerner [0017])*

As per claim 12, Lerner teaches:

- *an assignment module for assigning the applicant to a risk category based on the consistency between the medication information and the medical condition information. (see at least Lerner Fig. 2 Items:56,72 and related text)*

As per claim 13, Lerner teaches the system comprising:

- *means for identifying medication information provided by an applicant; means for identifying medical condition information provided by the applicant; (see at least Lerner [0022])*
- *means for assessing a consistency between the medication information and the medical condition information; (see at least Lerner [0023])*
- *means for making at least one insurance underwriting decision based on the consistency between the medication information and the medical condition information. (see at least Lerner [0024])*

As per claim 15, Lerner teaches the steps of:

- *means for querying a medical knowledge database, the database comprises information associated with a plurality of medications, a plurality of medical conditions, and treatment associations between the plurality of medications and the plurality of medical conditions. (see at least Lerner [0017])*

As per claim 16, Lerner teaches:

- *means for assigning the applicant to a risk category based on the consistency between the medication information and the medical condition information. (see at least Lerner Fig. 2 Items:56,72 and related text)*

9. Claims 2, 6, 10, 14 & 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lerner in view of Joao (US 2001/0032099 A1) (hereinafter Joao) in further view of Ghouri.

Claim 2

Lerner as shown, discloses all the limitations of Claim 1 and the following limitations:

- *comparing the list with the medical condition information provided by the applicant. (see at least Lerner [0012] "The computer system retrieves and utilizes this information to produce an underwriting score or value, where information gathered from the potential customer is compared to information within an insurer database." Wherein the "information gathered from the potential customer" reads on medical condition information.)*

Lerner does not disclose the following limitations, however Joao, as shown does:

- *generating a list of possibly treated conditions based at least in part on the medication information provided by the applicant; (see at least Joao [0215] "then generate a treatment report which will outline and/or prescribe treatment for the single diagnosis and/or for the list of possible diagnoses, if any. The central processing computer 10, when generating the treatment report, can process same in conjunction with, and consider, possible drug interactions and/or treatment interactions.")*

It would have been obvious to one of ordinary skill in the art to add the features of Joao into Lerner, One of ordinary skill in the art would have added these features into Lerner with the motivation to provide an improved invention for effectively and efficiently analyzing and managing decisions regarding healthcare insurance, diagnosis, treatment, cost efficiency in order to provide enhanced medical care. (see at least Joao [0012]-[0019]).

Claim 6

Lerner as shown, discloses all the limitations of Claim 5 and the following limitations:

- *code adapted to compare the list with the medical condition information provided by the applicant.* (see at least Lerner [0012])

Lerner does not disclose the following limitations, however Joao, as shown does:

- *code adapted to generate a list of possibly treated conditions based at least in part on the medication information provided by the applicant;* (see at least Joao [0215])

It would have been obvious to one of ordinary skill in the art to add the features of Joao into Lerner, One of ordinary skill in the art would have added these features into Lerner with the motivation to provide an improved invention for effectively and efficiently analyzing and managing decisions regarding healthcare insurance, diagnosis, treatment, cost efficiency in order to provide enhanced medical care. (see at least Joao [0012]-[0019]).

Claim 10

Lerner as shown, discloses all the limitations of Claim 9 and the following limitations:

- *a comparison module for comparing the list with the medical condition information provided by the applicant. (see at least Lerner [0012])*

Lerner does not disclose the following limitations, however Joao, as shown does:

- *a generation module for generating a list of possibly treated conditions based at least in part on the medication information provided by the applicant; (see at least Joao [0215])*

It would have been obvious to one of ordinary skill in the art to add the features of Joao into Lerner, One of ordinary skill in the art would have added these features into Lerner with the motivation to provide an improved invention for effectively and efficiently analyzing and managing decisions regarding healthcare insurance, diagnosis, treatment, cost efficiency in order to provide enhanced medical care. (see at least Joao [0012]-[0019]).

Claim 14

Lerner as shown, discloses all the limitations of Claim 13 and the following limitations:

- *means for comparing the list with the medical condition information provided by the applicant. (see at least Lerner [0012])*

Lerner does not disclose the following limitations, however Joao, as shown does:

- *means for generating a list of possibly treated conditions based at least in part on the medication information provided by the applicant;* (see at least Joao [0215])

It would have been obvious to one of ordinary skill in the art to add the features of Joao into Lerner, One of ordinary skill in the art would have added these features into Lerner with the motivation to provide an improved invention for effectively and efficiently analyzing and managing decisions regarding healthcare insurance, diagnosis, treatment, cost efficiency in order to provide enhanced medical care. (see at least Joao [0012]-[0019]).

Claim 17

Lerner as shown, discloses the following limitations:

- *identifying medical condition information provided by the applicant;* (see at least Lerner [0022])
- *assessing a consistency between the medication information and the medical condition information;* (see at least Lerner [0023])
- *making at least one insurance underwriting decision based on the consistency between the medication information and the medical condition information, the making at least one insurance underwriting decision performed by the processor;* (see at least Lerner [0024])
- *querying a medical knowledge database, the database comprises information associated with a plurality of medications, a plurality of medical conditions, and treatment associations between the plurality of medications and the plurality of*

medical conditions, and generating the list of possibly treated conditions based on results from the querying of the medical knowledge database; (see at least Lerner [0017])

Lerner does not disclose the following limitations, however Joao, as shown does:

- *generating a list of possibly treated conditions based at least in part on the medication information provided by the applicant; (see at least Joao [0215])*

It would have been obvious to one of ordinary skill in the art to add the features of Joao into Lerner, One of ordinary skill in the art would have added these features into Lerner with the motivation to provide an improved invention for effectively and efficiently analyzing and managing decisions regarding healthcare insurance, diagnosis, treatment, cost efficiency in order to provide enhanced medical care. (see at least Joao [0012]-[0019]).

Lerner/Joao does not disclose the following limitations, however Ghouri, as shown does:

- *identifying medication information provided by an applicant; (see at least Ghouri [0019] Fig:1,2 & related text)*
- *assessing a consistency between the medication information and the medical condition information; (see at least Ghouri [0019] Fig:1,2 & related text)*
- *comparing the list of possibly treated conditions with the medical condition information provided by the applicant, the comparing resulting in the consistency*

being identified between the medication information and the medical condition information. (see at least Ghouri [0019] Fig:1,2 & related text)

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the features of Ghouri into Lerner. One of ordinary skill in the art would have added these features into Lerner with the motivation to provide a more efficient and accurate approach to assessing the consistency between medication information and the medical conditions in order to yield more informed and beneficial medical decisions. (see at least Ghouri [0008]-[0013])

Claim 18

The combination of Lerner/Joao discloses all of the limitations of claim 17. Lerner further discloses the following limitation:

- *assigning the applicant to a risk category based on the consistency between the medication information and the medical condition information. (see at least Lerner Fig. 2 Items:56,72 and related text)*

Response to Arguments

10. Applicant's arguments filed 05 February 2009 have been fully considered but they are not persuasive. Applicant's arguments with respect to claims 1-18 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry of a general nature or relating to the status of this application or concerning this communication or earlier communications from the Examiner should be directed to **Rajiv J. Raj** whose telephone number is **(571) 270-3930**. The Examiner can normally be reached on Monday-Friday, 7:30am-5:00pm. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, **Jerry O'Connor** can be reached at **571.272.6787**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://portal.uspto.gov/external/portal/pair> <<http://pair-direct.uspto.gov>>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at **866.217.9197** (toll-free).

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Date: 03/10/09
/RJR/ Patent Examiner Art Unit 3686

/Gerald J. O'Connor/
Supervisory Patent Examiner
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